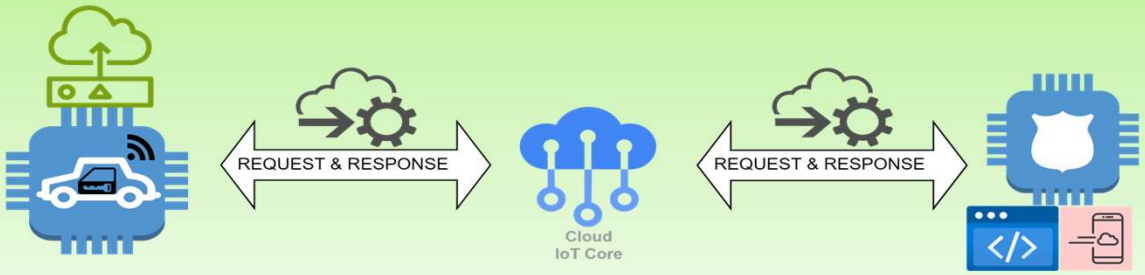
DEPARTMENT OF INFORMATION TECHNOLOGY
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS-ANNA UNIVERSITY
AlcEngine IoT: Alcohol-Activated Engine Immobilization System

PROBLEM STATEMENT:

- *Driving under the influence of alcohol is a significant public safety concern worldwide, leading to countless accidents, injuries, and fatalities each year.*
- *As responsible members of society, it's crucial to prioritize initiatives that aim to prevent drunk driving and promote safer roadways for everyone.*

ARCHITECTURE



TECHNOLOGY INVOLVED

- ***IoT Integration:*** *Seamlessly connects sensors, controllers, and actuators for efficient data exchange*

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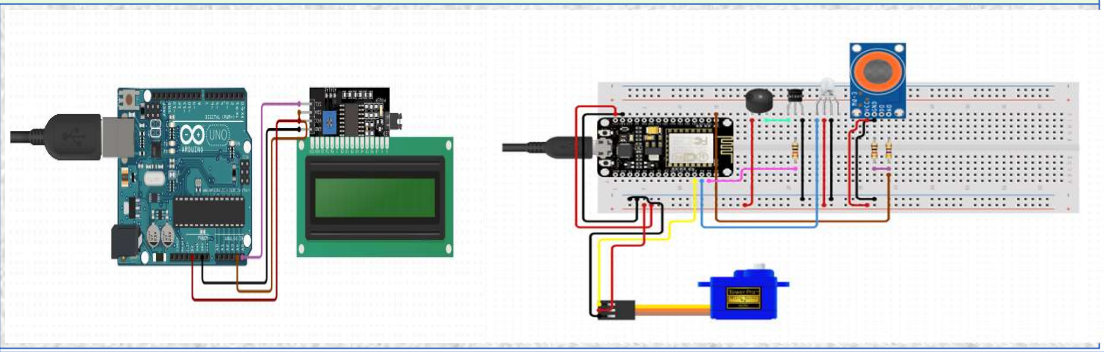
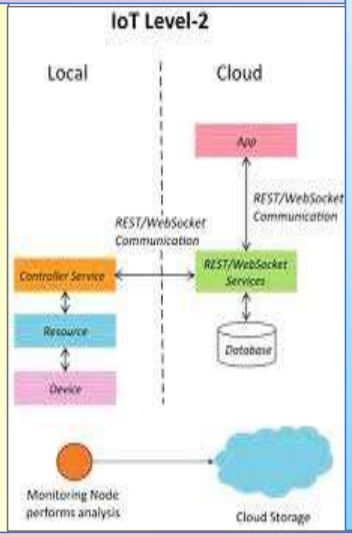
- ***Cloud Connectivity:*** *Enables centralized management and real-time monitoring for enhanced accessibility*



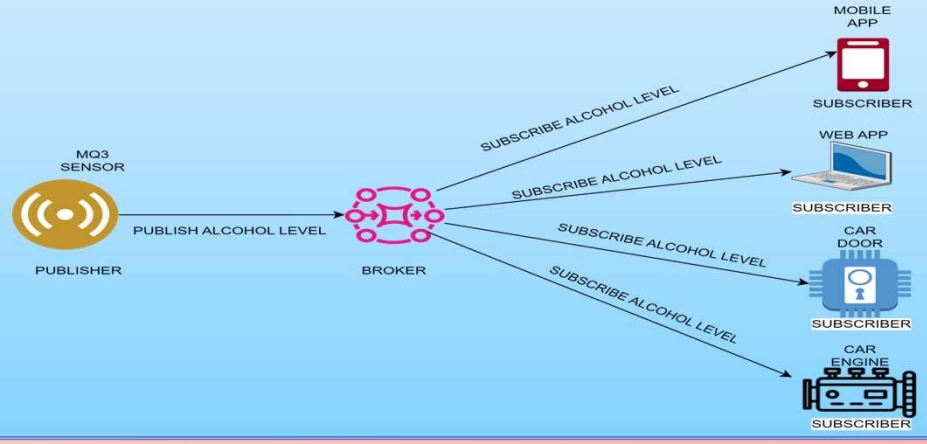
LEVEL DIAGRAM:

- *A level-2 IoT system has a single node (ESP3266 NODE MCU) that performs sensing (MQ3) and/or actuation (DOOR AND ENGINE LOCK) and local analysis.*
- *Data is stored in the cloud and the application is usually cloud-based.*
- *User can control the IOT devices through cloud from any place in the world through internet*



DATA COMMUNICATION:

MQTT (MESSAGE QUEUEING TELEMETRY TRANSPORT)



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